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The library at the point of care: Integrated resources and instruction in the third-year medical school curriculum

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	M1	M2	M3	M3 (IM)	M3 (Phd)	M4
Scheduling	2 sessions 2-3 hr rotation (early August) 2-3 hr required (mid-late August)	2 hr session October	2 hr session Early May	3 month intervals beginning in June	3 month intervals beginning in June	beginning in Aug.
Session description	MDM: Patients & Populations I	MDM: Patients & Populations I	MDM: Patients & Populations I (M3 Overlap)	MD Clerkship	Phd Clerkship	Research Medical Experiences (AMT)
Session focus	Foundational Resources: background information resources, secondary literature	Evidence-based Practice Resources: Primary vs. secondary literature; systematic reviews; practice guidelines	Information Resources in the Clinical Environment: Drug databases; practice guidelines; patient education resources; mobile resources	Information Resources in the Clinical Environment: Published clinical queries; practice guidelines; drug databases; systematic reviews; evidence synthesis	Information Resources in the Clinical Environment: Published clinical queries; practice guidelines; drug databases; systematic reviews; evidence synthesis	Research Resources: Using the evidence base in the primary care; the primary care; the primary care; the primary care
Medicine	Medicine via Patient Medicine via Doc Medicine via Journal & Doc Medicine via Journal & Doc	Clinical Queries: Therapy Systematic Reviews Guidelines	Clinical Queries: Therapy Systematic Reviews Guidelines	Clinical Queries: Therapy Systematic Reviews Guidelines	Clinical Queries: Therapy Systematic Reviews Guidelines	Medicine via M3 Medicine via M3 Medicine via M3
Cochrane		Cochrane CDL via Doc		Cochrane CDL (trial use)	Cochrane CDL (trial use)	
Guidelines		National Guideline Clearinghouse (NGC) UMHS Practice Guidelines ACP-PCP	Dynamic NGC ACP-PCP UMHS-PCP	Dynamic NGC ACP-PCP UMHS-PCP	Dynamic NGC ACP-PCP UMHS-PCP	
Textbooks	Videotutorial: Accessing E-books (part 1): M3Consult, AccessMedicine					
Drug Databases			MicroMedex Pain & Comparisons Natural Standard	MicroMedex Pain & Comparisons Natural Standard	MicroMedex Pain & Comparisons Natural Standard	
Patient Education			UMHS Patient Education Mediaphys	UMHS Patient Education Mediaphys	UMHS Patient Education Mediaphys	
Misc.	Video tutorial: Intro to the TPL homepage Psychological Databases					

[1]

Current M3 Involvement

- 3 Curriculum-integrated information resources sessions
- LibGuide supplemental content
- CMS-integrated library page

One of the most pressing challenges clinicians face is effectively and appropriately utilizing online information resources at the point of care. The third year medical school curriculum is a prime place to teach tomorrow's physicians to incorporate library resources into their workflow as they begin their clinical clerkship rotations. This poster is an overview of the ways librarians integrate instruction and online resources into third-year medical student clerkship experiences within a large academic health system. Methods include: hands-on instruction during pre-clerkship orientation, targeted hands-on instruction co-taught with clinical faculty during two different clerkship rotations, and utilization of the medical school's online course management system to supply targeted point of care resources and relevant online instruction to designated clerkship rotations.

M3 Orientation

Orientation to PoC Resources

Taubman Health Sciences librarians have been involved in third year medical student orientation sessions for over a decade. Orientation to the wards takes place in early May, and marks a "tipping point" for students and their relationship to information resources. Students begin their clinical rotations and need rapid access to high quality information for medical decision making at the point of care. This two hour hands-on session is co-taught with a faculty physician and is arranged in a rapid-fire case-based format to simulate the clinical environment. Students are also briefly introduced to available mobile resources and the library's mobile resources guide.

2012 OUTLINE - Internal

Introduction, 10 min - RAJ

- Intro to Table (assignment table & clerkship resources handout)
- 5 Resources in this session
- Intro SCREENSHOTS HERE

1) Topic 1 (Drug Information) - LIBRARIAN (45 min.)

- "Round Fire" cases - 1) Drug 2) Drug/Drug Interactions 3) Drug Identifier & Adverse Effects 4) Comparative Table
- Intro to resources - Live to resources main pages
- Hands-on
 - o Case 1: MicroMedex & DynaMed
 - o Case 2: Facts & Comparisons
 - o Case 3: Natural Standard
- Debrief w/ screen shots

2) Topic 2 (Guidelines) - LIBRARIAN (25 min.)

- Review of case exercises
- Intro to resources - Live to resources main pages
- Hands-on
 - o Case 1: National Guideline Clearinghouse & UMBHS Guidelines
 - o Case 2: DynaMed (ACP PIR demo)
- Debrief w/ screen shots

3) Topic 3 (Patient Education) - LIBRARIAN (15 min.)

- Review of case exercises
- Intro to resources - Live to resources main pages
- Hands-on
 - o Case 1: UMBHS Patient Education
 - o Case 2: Mediaphys
- Debrief w/ screen shots

5) Cool Tools (15 min.)

6) Session wrap-up

Topic 1: Finding Drug Information

Source

Where to Go

Notes

1. MicroMedex & DynaMed
a) You are considering a new drug (X) for a patient with a history of asthma. What is the recommended dosage?
b) What are the drug-drug interactions for X?
c) What are the side effects of X?
d) What are the contraindications for X?
e) What are the precautions for X?
f) What are the warnings for X?
g) What are the cautions for X?
h) What are the contraindications for X?
i) What are the precautions for X?
j) What are the warnings for X?
k) What are the cautions for X?

2. Facts & Comparisons
a) You are a new patient in clinic, which has been developed. You are considering a new drug (X) for a patient with a history of asthma. What is the recommended dosage?
b) What are the drug-drug interactions for X?
c) What are the side effects of X?
d) What are the contraindications for X?
e) What are the precautions for X?
f) What are the warnings for X?
g) What are the cautions for X?
h) What are the contraindications for X?
i) What are the precautions for X?
j) What are the warnings for X?
k) What are the cautions for X?

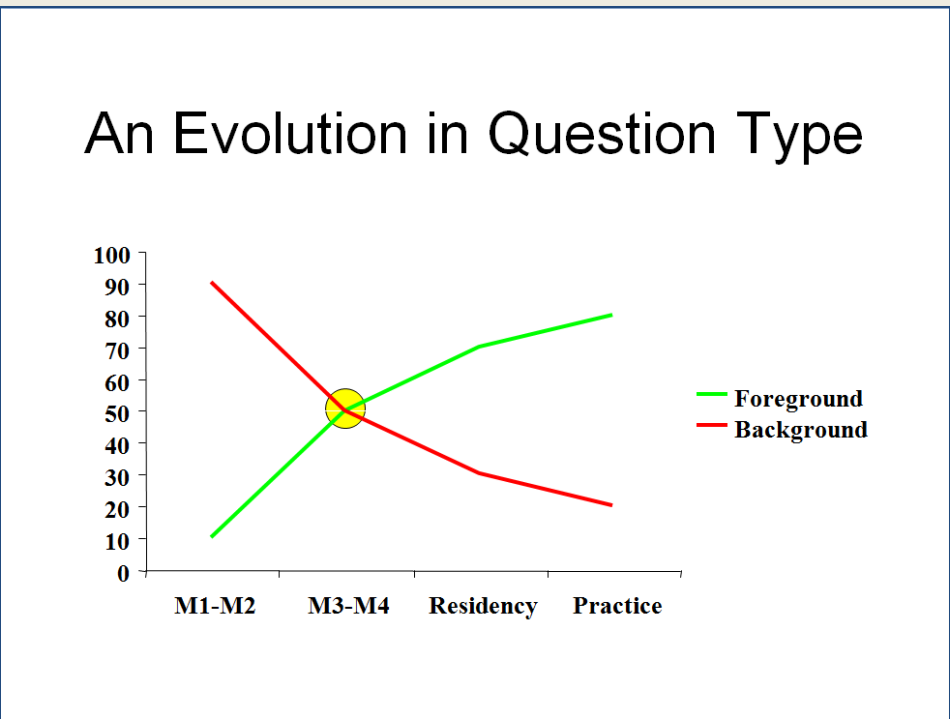
3. National Guideline Clearinghouse & UMBHS Guidelines
a) You are a new patient in clinic, which has been developed. You are considering a new drug (X) for a patient with a history of asthma. What is the recommended dosage?
b) What are the drug-drug interactions for X?
c) What are the side effects of X?
d) What are the contraindications for X?
e) What are the precautions for X?
f) What are the warnings for X?
g) What are the cautions for X?
h) What are the contraindications for X?
i) What are the precautions for X?
j) What are the warnings for X?
k) What are the cautions for X?

4. DynaMed (ACP PIR demo)
a) You are a new patient in clinic, which has been developed. You are considering a new drug (X) for a patient with a history of asthma. What is the recommended dosage?
b) What are the drug-drug interactions for X?
c) What are the side effects of X?
d) What are the contraindications for X?
e) What are the precautions for X?
f) What are the warnings for X?
g) What are the cautions for X?
h) What are the contraindications for X?
i) What are the precautions for X?
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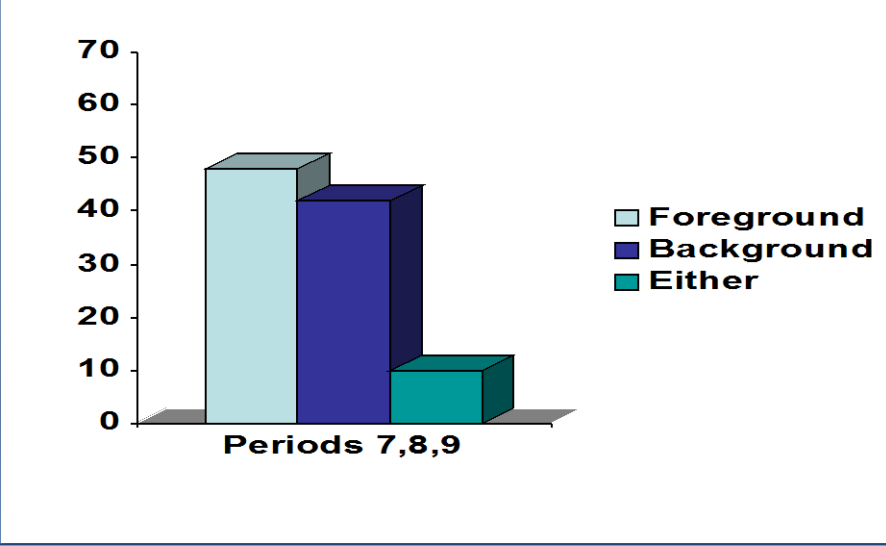
Internal Medicine Clerkship

Real-Case/Real-Time EBM

The third-year Internal Medicine Clerkship session requires students to submit a challenging clinical question they encountered recently during the rotation. The instructors review the student-submitted questions and identify four that best illustrate the tools and features of four major categories of resources: primary literature, systematic reviews, practice guidelines, and drug databases. For each of the four clinical questions selected, the students are directed to two resources and given five minutes to answer the question. The faculty instructor leads a discussion about the clinical significance of their findings. Finally, a librarian walks the students through each resource, again highlighting key features and functionalities. [1]



Your Questions: Periods 10-12



Case 3

The patient is an 81 year old woman with no past medical history who presents for an annual HME. She has been getting mammograms annually for decades. She is in essentially perfect health with no comorbidities, and she leads an active, healthy lifestyle.

How long should this patient continue annual mammograms?

National Guidelines Clearinghouse
UMHS Guidelines
DynaMed

Additional Consideration

MicroMedex
DynaMed
National Guideline Clearinghouse
UMHS Guidelines

DynaMed

Search
Results

Pediatrics Clerkship

Systematic Reviews at the PoC

In contrast to the frenetic pace of the Internal Medicine Clerkship session, the third-year Pediatrics Clerkship session focuses less on finding and more on evaluating information and integrating that information into clinical practice. During the session, students are given a PICO question and asked to search for a relevant systematic review using PubMed's Clinical Queries. Once a relevant review is identified, they are asked to use the DARE (Database of Abstracts of Reviews of Effects) review structure to evaluate it, and then report their conclusions to the class. This session is held during the 12-week Pediatrics rotation. [1]

Goals

- Understand what Systematic Reviews are and why they are important
- Learn how to find Systematic Review articles
- Learn how to understand and appraise them
- Improve ability to incorporate evidence into your clinical activity

What are Review Articles?

- Narrative vs. Systematic Reviews
- Types of Systematic Reviews
- When to look for a systematic review

Group Exercise Appraising Two Steroid for Kawasaki Disease Papers

1. Are the Results Valid?

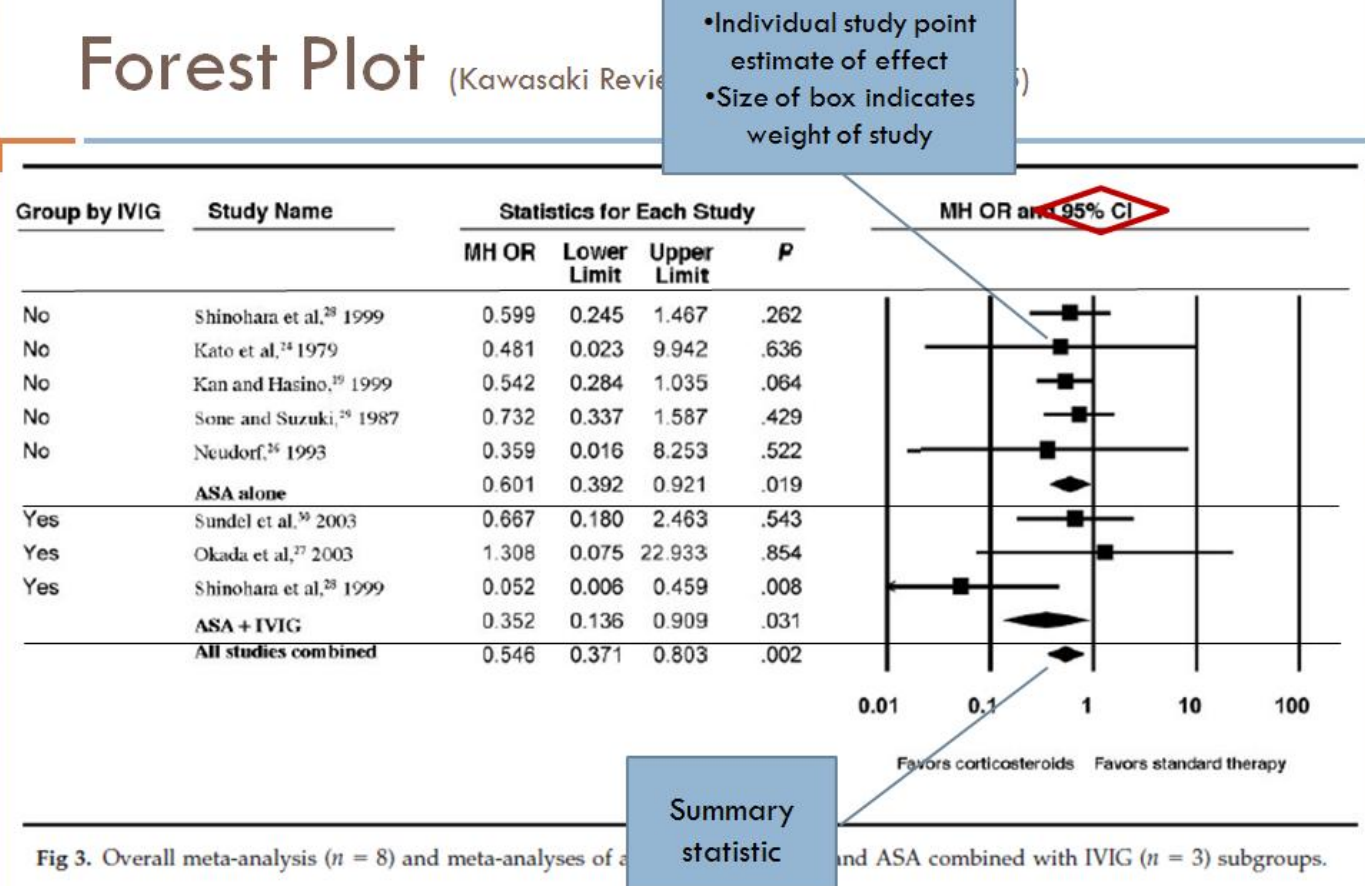
- Did the Review explicitly address a sensible clinical question?
- Was the search for relevant studies detailed and exhaustive?
- Were the primary studies of high methodological quality?
- Were assessments of studies reproducible?

2. What are the results?

- Were the results similar from study to study?
- What are the overall results of the review?
- How precise were the results?

3. How can I apply the results to patient care?

- How can I best interpret the results to apply them to the care of patients in my practices?
- Were all clinically important outcomes considered?
- Are the benefits worth the costs & potential risks?



Surgery Clerkship

Online Surgical Resources

In late 2011, an author (WT) attended a Clerkship director meeting to discuss how the library supports clerkship rotations. After the session the surgery clerkship director expressed interest in developing a website of supplemental readings for that rotation's lecture content. The director and the surgery librarian (MPM) met to discuss E-Book content and website platforms. ultimately deciding on a Libguide comprised of short E-Book chapters, review articles, and Dynamed entries. The Libguide was instituted as a pilot in September 2012 (<http://guides.lib.umich.edu/M3SurgeryClerkship>).

M3 Library

University of Michigan Library

M3 Surgery Clerkship

On this guide you will find brief readings to supplement the M3 Surgery Clerkship lecture content.

Last updated: Apr 23, 2013 | URL: <http://guides.lib.umich.edu/M3SurgeryClerkship> | [Print Guide](#)

Overview | [Abdominal Pain \(Acute & Chronic\)](#) | [Acute Deep Venous Thrombosis](#) | [Breast Disease](#) | [Cold Paresthesia & Claudication](#) | [Dysphagia](#) | [Gastrointestinal Bleeding](#) | [Hernia](#) | [Jaundice](#) | [Neck Mass](#) | [Oliguria/Auria](#) | [Postoperative Fever](#) | [PVD](#) | [TIA & Carotid Stenosis](#) | [Trauma \(Shock & Burn\)](#)

Links / Resources

- Other Surgery Resources
- Taubman Health Sciences Library
- Clinical Home Page
- Access Surgery (E-Books)
- M3 Consult

Evidence-Based Learning and Supplemental Materials

These resources supplement the Surgery Clerkship's lecture content. Most of the included book chapters are short, so if you would like more detailed background information by searching E-Book resources, like [M3 Consult](#), [Access Medicine](#), and [DynaMed](#).

- Abdominal Pain (Acute & Chronic)
- Acute Deep Venous Thrombosis
- Breast Disease
- Cold Paresthesia & Claudication
- Dysphagia
- Gastrointestinal Bleeding
- Hernia
- Jaundice & Obstructive Jaundice
- Neck Mass
- Oliguria/Auria
- Postoperative Fever
- PVD
- TIA & Carotid Stenosis
- Trauma (Shock & Burn)

Acute Deep Venous Thrombosis

Links / Resources

- Other Surgery Resources
- Taubman Health Sciences Library
- Clinical Home Page
- Access Surgery (E-Books)
- M3 Consult

Acute Deep Venous Thrombosis

Book Chapters

- Current Diagnosis & Treatment: Surgery
- First Clinical Review: Surgery

Review Articles

- Cochrane Reviews
- Other Reviews

DynaMed

- Deep Venous Thrombosis

[1] MacEachern, M., Townsend, W., Young, K., & Rana, G. (2012). Librarian integration in a four-year medical school curriculum: a timeline. *Medical Reference Services Quarterly*, 31(1), 105-114. doi:10.1080/02763869.2012.641856